IN THE CLAIMS

Cancel claim 12 without prejudice or disclaimer and amend claims 13, 14, 15 and 16 as set forth below.

1-12.   (Canceled).

13.   (Currently Amended)   A mobile terminal ~~according to claim 12,~~ used in a code division multiple access mobile communication system, in which a base station transmits a control signal via perch channels formed such that a long period code assigned to said base station and a first short period code are mapped in a first section of one slot of said perch channel and a predetermined short period code is mapped in a second section of said one slot, said mobile terminal comprising:

an RF unit for converting a received signal of a carrier frequency received from an antenna to a baseband signal; and

a matched filter for receiving input of said baseband signal and calculating a correlation value for said

baseband signal by using said predetermined short period code to establish slot timing synchronization,

wherein a symbol length of said predetermined short period code has a smaller value than a symbol length of said first short period,

wherein in said second section are mapped a second short period code, and a third short period code being one of a plurality of short period codes each corresponding to classification of the long period code spreading said first section.

14. (Previously Presented) A mobile terminal used in a code division multiple access mobile communication system in which a base station transmits a control signal via perch channels formed such that a long period code assigned to said base station and a first short period code is mapped in a first section of one slot of said perch channel and a predetermined short period code is mapped in a second section of said one slot, said mobile terminal comprising:

an RF unit for converting a received signal of a carrier frequency received from an antenna to a baseband signal; and

a matched filter for receiving input of said baseband

signal and calculating a correlation value of said baseband

signal and said predetermined short period code,

wherein the number of taps of said matched filter is

smaller than a spreading factor of said long period code of

said control signal.

15.   (Currently Amended) A mobile terminal used in a

code division multiple access mobile communication system in

which a base station transmits a control signal via perch

channels formed such that a long period code assigned to said

base station and a first short period code is mapped in a

first section of one slot of said perch channel and a second

short period code and a third short period code are mapped in

a second section of said one slot, comprising:

an RF unit for converting a received signal of a

carrier frequency received from an antenna to a baseband

signal; and

a matched filter for calculating a̶ said correlation

value for said baseband signal,

4

wherein said received signal includes a control signal, said long period code being assigned to said base station and said first short period code being assigned to each channel of said base station, and said second short period code having a spreading factor smaller than said first short period code and a third short period code having a spreading factor not greater than said first short period code, and wherein said matched filter calculates the correlation value for said control signal by use of said second short period code.

16.   (Currently Amended)   A mobile terminal according to claim 15, wherein said second short period code is a short period code common to base stations included in the mobile communication system, and said third short period code is one of a plurality of short period spreading codes each corresponding to classification of said long period code.

17.   (Previously Presented)   a mobile terminal used in a code division multiple access mobile communication system, comprising:

a RF unit for converting a received signal of a carrier frequency received from an antenna to a received signal of a baseband; and

a matched filter for calculating a correlation value for said received signal using a predetermined short period code,

wherein said received signal includes a control signal, a first section of one slot of said control signal having mapped in it a long period code assigned to said base station and a short period code assigned to each channel of said base station, a second section of said one slot having mapped in it said predetermined short period spreading code, and a number of taps of said matched filter is smaller than numbers representing spreading factor said short period code mapped in said first section.

18.   (Previously Presented)   A mobile terminal comprising a matched filter having a number of stages, said number of stages of the matched filter being smaller than a number representing a symbol length of a control signal transmitted in a section other than a long code masked symbol section in

one slot on a perch channel, said matched filter having coefficients kept set for constant values.

19.   (Previously Presented)   A mobile terminal according to claim 18, wherein said number of stages of said matched filter is equal to a number representing a symbol length of a masked symbol in said long code masked symbol section.

20.   (Previously Presented)   A mobile terminal according to claim 19, wherein said coefficients of the matched filter correspond to a common short code (CSC) in said long code masked symbol section.